

SECTION IV: APPENDICES



*Figure 57. Diver mapping the shipwreck Cuba at San Miguel Island.
(Mark Norder)*

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APPENDIX A: ACTION PLAN SUMMARY TABLES

This management plan proposes a complex suite of strategies and activities contained within nine diverse action plans. Appendix A provides summary information about these action plans in two tables: Appendix A1 and Appendix A2. While the action plans are detailed through over 160 pages of text, Appendix A1 below provides a basic overview of each action plan by strategy and activity. Information about the status, funding source, and partnership coordination is provided for each activity. Because the availability of funds is contingent upon the federal appropriations process, which varies from year to year, and because priorities also shift throughout time, the precise level of implementation for each activity is not predicted here. Appendix A2 on page 236 presents base budget (core operations and programmatic costs) and capital facility estimates for years one through five of this management plan.

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Appendix A1

Table 24. Action Plan Summary Table

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					FISCAL YEAR 2005 BUDGET (\$2.3 MIL)	10% ANNUAL FUNDING INCREASE	20% ANNUAL FUNDING INCREASE
Awareness and Understanding Action Plan							
Strategy AU.1 - Education Program Development							
(1) Develop teacher workshops	◇	□	◎	H	H	H	
(2) Continue to develop education programs addressing water quality	◆	■	●	M	M	H	
(3) Provide content for GIS “Mapping an Ocean Sanctuary” education materials	◇	□	○	M	M	M	
(4) Continue support of Oceans to Classrooms marine science series	◇	■	◎	H	H	H	
(5) Conduct student field monitoring	◆	■	◎	M	M	M	
(6) Partner with the mobile marine education van	◇	■	◎	L	L	L	
(7) Participate in NOAA/NMSP national initiative strategies	◆	■	◎	M	M	H	
Strategy AU.2 - Community Involvement/Volunteer & Intern Program Development							
(1) Provide presentations at regional and national workshops and conferences	◇	□	◎	M	M	M	
(2) Continue adult education programs and From Shore to Sea lecture series	◆	□	◎	M	M	M	
(3) Maintain interagency interpretive program with CINP	◆	■	◎	H	H	H	
(4) Maintain the Great Annual Fish Count Program	◇	■	●	M	M	M	
(5) Maintain the CINMS Internship Program	◇	□	◎	H	H	H	

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					FISCAL YEAR 2005 BUDGET (\$2.3 MIL)	10% ANNUAL FUNDING INCREASE	20% ANNUAL FUNDING INCREASE
Strategy AU.3 - Team OCEAN							
(1) Maintain the Channel Islands Naturalist Corps		◆	▣	◎	H	H	H
(2) Develop Sanctuary Marine Watch volunteer program		◆	□	◎	L	M	M
(3) Integrate CINMS Volunteer Program strategies into NMSP volunteer efforts		◆	□	◎	H	H	H
(4) Engage in Ocean Etiquette Programming		◆	□	◎	M	M	H
Strategy AU.4 - Developing Outreach Technology							
(1) Expand website capabilities		◆	□	○	M	M	M
(2) Increase the number of CINMS interactive kiosks		◆	□	◎	M	H	H
(3) Participate in national telepresence initiative		◆	▣	◎	M	M	H
(4) Maintain interactive Marine Mammal Sightings Database		◆	□	◎	M	M	M
Strategy AU.5 - Greater Southern California Outreach							
(1) Place Channel Islands Harbor Boating Instruction & Safety Center exhibits, panels and literature		◆	□	◎	M	M	M
(2) Implement outreach plans and volunteer programs		◆	□	◎	H	H	H
(3) Implement COSEE-West Programs		◇	■	◎	M	M	M

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					FISCAL YEAR 2005 BUDGET (\$2.3 MIL)	10% ANNUAL FUNDING INCREASE	20% ANNUAL FUNDING INCREASE
Strategy AU.6 - Developing Education & Outreach Tools & Products							
(1) Maintain various print publications		◇	□	◎	M	M	M
(2) Support various other educational materials		◇	□	◎	M	M	M
(3) Support other outreach materials		◇	□	◎	M	M	M
(4) Sponsor Sanctuary cruises		◇	□	◎	M	M	M
(5) Participate in outreach events		◇	□	◎	H	H	H
Strategy AU.7 - Visitor Center Support & Development							
(1) Partner with the Outdoors Santa Barbara Visitor Center		◇	▣	◎	M	M	M
(2) Partner with the Ty Warner Sea Center		◆	■	◎	H	H	H
(3) Maintain exhibits for the Cabrillo High School Aquarium		◇	▣	◎	M	M	M
(4) Partner with the Channel Islands Harbor Boating Instruction and Safety Center		◆	■	◎	M	M	M
(5) Work with the South Coast Watershed Resource Center		◇	□	◎	L	L	M
(6) Maintain/Improve CINMS presence at CINP Visitor Center		◆	□	●	H	H	H
(7) Assist in development of the Outreach Center for Teaching Ocean Sciences		◆	▣	●	H	H	H

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					FISCAL YEAR 2005 BUDGET (\$2.3 MIL)	10% ANNUAL FUNDING INCREASE	20% ANNUAL FUNDING INCREASE
Strategy AU.8 - MPA Network Education							
(1) Implement SET recommendations for MPA network education and outreach products and services	◆	□	○	M	M	M	
(2) Develop printed educational products	◆	▣	⊙	M	M	H	
(3) Conduct Sanctuary cruises	◆	□	○	M	M	M	
(4) Develop, place, and maintain interpretive signs and kiosks	◆	□	⊙	H	H	H	
(5) Maintain MPA network website	◆	□	○	H	H	H	
Strategy AU.9 - Multicultural Education							
(1) Retain bilingual community liaison	◆	▣	○	M	M	H	
(2) Develop and adapt multicultural elements	◆	□	○	H	H	H	
(3) Implement the Multicultural Education Strategic Plan	◆	▣	○	H	H	H	
Conservation Science Action Plan							
Strategy CS.1 - Sanctuary Aerial Monitoring and Spatial Analysis Program							
(1) Continue SAMSAP data collection	◆	□	⊙	H	H	H	
(2) Produce data and trends analysis	◆	□	○	M	M	M	

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Strategy CS.2 - Comprehensive Data Management							
(1) Identify applicable data nodes	◆	□	○	H	H	H	
(2) Process and maintain existing and new data	◆	□	○	H	H	H	
Strategy CS.3 - Support Monitoring and Site Characterization Programs							
(1) Continue support for monitoring	◆	▣	⦿	M	M	H	
(2) Continue seafloor mapping project	◇	▣	⦿	H	H	H	
(3) Continue support for seabird studies	◆	▣	⦿	M	M	H	
(4) Support site characterization research projects	◆	▣	⦿	M	M	M	
(5) Develop carbon budget for the Sanctuary	◆	▣	⦿	L	M	H	
Strategy CS.4 - Collaborative Marine Research Project							
(1) Select and implement research projects	◆	□	⦿	M	H	H	
Strategy CS.5 - Research Interpretation							
(1) Interpret and disseminate Sanctuary research findings	◆	□	⦿	H	H	H	
(2) Develop a research-focused website / implement SIMoN	◆	□	○	H	H	H	
(3) Disseminate research information at public venues	◆	□	○	M	M	M	
(4) Develop a voluntary research registry	◆	□	⦿	M	M	M	

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Strategy CS.6 - Biological Monitoring of MPA Network							
(1) Maintain and expand MPA network biological monitoring program	◆	■	●	H	H	H	
(2) Utilize various existing CINMS research and monitoring programs in support of the MPA network	◆	□	●	H	H	H	
(3) Develop and implement an MPA network deep water monitoring plan	◆	■	●	H	H	H	
Strategy CS.7 - Socioeconomic Monitoring of MPA Network							
(1) Develop and implement MPA network socioeconomic monitoring program	◆	■	●	H	H	H	
Strategy CS.8 - Automated Identification System (AIS) Vessel Tracking							
(1) Work with partners to install an AIS transceiver	◆	■	●	H	H	H	
(2) Work with partners to create an Internet access point for CINMS AIS data	◆	■	●	H	H	H	
(3) Download and analyze AIS data	◆	■	◎	M	H	H	
(4) Work with Scripps Institute of Oceanography on anthropogenic noise study	◆	■	●	M	M	H	
Boundary Evaluation Action Plan							
Strategy BE.1 - Final Determination on Boundary Issue							
(1) Prepare and release draft SEIS/SMP	◆	□	○	M	H	H	
(2) Issue final SEIS/SMP; make final decision on boundaries	◆	□	○	M	H	H	

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Water Quality Action Plan							
Strategy WQ.1 - Offshore Water Quality Monitoring							
(1) Continue support for Plumes and Blooms		◇	■	●	M	M	M
(2) Continue support for Southern California Bight Regional Monitoring Surveys		◇	■	●	M	M	M
(3) Continue support for CINMS water quality monitoring initiatives		◆	▣	●	L	M	M
Strategy WQ.2 - Water Quality Protection Planning							
(1) Complete Water Quality Characterization Report		◆	▣	●	H	H	H
(2) Compile and synthesize information on jurisdictional water quality authorities and responsibilities		◆	□	◎	M	H	H
(3) Review state and regional water quality management		◆	□	○	M	H	H
(4) Develop and propose priority corrective actions for managing Sanctuary water quality impacts		◆	□	○	M	M	H
Emergency Response & Enforcement Action Plan							
Strategy EE.1 - Emergency Response Planning & Implementation							
(1) Identify specific emergency response duties for CINMS staff		◆	▣	○	H	H	H

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(2) Implement SHIELDS and RUST		◆	□	◎	H	H	H
(3) Train additional emergency response volunteers		◆	□	◎	M	M	M
(4) Develop an emergency response manual		◆	□	◎	H	H	H
(5) Develop modeling program as part of SAMSAP		◆	□	○	M	H	H
Strategy EE.2 - Expanding Enforcement Efforts							
(1) Plan and implement interpretive enforcement via Sanctuary Marine Watch (Team OCEAN)		◆	□	◎	M	M	H
(2) Maintain effective vessel and aircraft surveillance operations		◆	■	◎	H	H	H
(3) Cross-deputize other regional enforcement personnel		◆	■	●	H	H	H
Maritime Heritage Action Plan							
Strategy MH.1 - The Shipwreck Reconnaissance Program							
(1) Maintain the CINMS MHR inventory		◇	□	◎	H	H	H
(2) Continue year-round monitoring of known sites		◆	■	◎	M	M	M
(3) Produce various MHR-focused outreach materials		◆	□	○	M	H	H
Strategy MH.2 - MHR Volunteer Program							
(1) Work with volunteers in the production of waterproof shipwreck maps		◆	■	◎	L	L	L

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(2) Support volunteer photo and video documentation of sites	◆	◇	□	⊙	M	M	M
(3) Support volunteers in the production of annual MHR Reconnaissance Reports	◇	◇	■	⊙	L	L	L
Strategy MH.3 - Partnering With the Santa Barbara Maritime Museum							
(1) Maintain and update the NOAA Exhibit	◇	◇	□	⊙	M	M	M
(2) Maintain the <i>Winfield Scott</i> Exhibit	◇	◇	□	⊙	M	M	M
(3) Maintain the Central CA and Channel Islands Shipwrecks Exhibit	◇	◇	□	⊙	M	M	M
Strategy MH.4 - Implementing a Coordinated MHR Protection Outreach Effort							
(1) Clarify and enhance practices regarding protection and handling of Chumash	♦	◇	□	⊙	M	M	M
(2) Create and distribute shipwreck interpretive underwater slates	♦	◇	□	○	M	M	M
(3) Create and distribute video of CINMS shipwrecks	♦	◇	□	○	M	M	M
Strategy MH.5 - Upgrading the Maritime Heritage Website							
(1) Incorporate SBMM exhibits into the website	♦	◇	□	⊙	M	M	H
(2) Incorporate shipwreck profiles and site maps into the website	♦	◇	□	⊙	M	M	M
(3) Incorporate "Living Journals" into the website	♦	◇	□	⊙	H	H	H
Strategy MH.6 - Supporting Public Education of Chumash Native American Maritime Heritage							
(1) Support various watercraft-paddling journeys and activities	♦	◇	■	⊙	M	M	H

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(2) Work with Chumash community representatives to identify mutual objectives and activities		◆	□	●	M	M	H
Resource Protection Action Plan							
Strategy RP.1 - Identifying & Assessing Current and Emerging Issues							
(1) Develop comprehensive list of issues		◆	□	○	H	H	H
(2) Periodically assess and prioritize current and emerging issues list		◆	□	○	H	H	H
(3) Track emerging issues		◆	□	○	H	H	H
Strategy RP.2 - Responding to Identified Issues							
(1) Consult with the Sanctuary Advisory Council		◆	□	○	H	H	H
(2) Respond to issues		◆	□	○	H	H	H
Strategy RP.3 - General Marine Zoning							
(1) Analyze spatial data		◆	□	◎	H	H	H
(2) Evaluate utility of zoning strategies for the Sanctuary		◆	□	◎	H	H	H

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Operations Action Plan							
Strategy OP.1 - Sanctuary Advisory Council Operations							
(1) Support the operation and administration of the Advisory Council	◆	□	○	H	H	H	
(2) Improve the effectiveness of the Advisory Council	◆	□	○	M	M	M	
(3) Sponsor Advisory Council-hosted issue forums	◆	□	⦿	M	M	M	
Strategy OP.2 - Permitting and Activity Tracking							
(1) Continue careful oversight and issuance of permits	◆	□	○	M	M	M	
(2) Develop a voluntary research registry	◆	□	⦿	M	M	M	
(3) Consider developing voluntary registries for other activities	◆	□	⦿	L	L	M	
Strategy OP.3 - Relationships With Other Authorities							
(1) Conduct outreach to agencies and stakeholders	◆	□	○	H	H	H	
(2) Comment at public hearings on issues affecting the CINMS	◆	□	○	M	M	M	
(3) Review and comment on relevant plans and projects	◇	□	○	M	M	M	
(4) Enhance partnership with the Channel Islands National Park	◆	□	⦿	H	H	H	
(5) Utilize and maintain tools to formalize relationships with other authorities	◇	□	●	M	M	H	

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Strategy OP.4 - Vehicle, Boat & Aircraft Operations							
(1) Acquire and maintain Sanctuary vehicles		◇	□	○	H	H	H
(2) Maintain and renovate Sanctuary vessels		◆	□	○	H	H	H
(3) Contract and partner agency aircraft operations		◇	▣	◎	H	H	H
Strategy OP.5 - Administrative Initiatives							
(1) Continue to manage Sanctuary finances		◇	□	○	H	H	H
(2) Ensure a safe and secure working environment		◇	□	○	H	H	H
(3) Work with the NOAA Western Regional Center		◇	□	◎	H	H	H
(4) Identify, prioritize, and fill equipment and service needs		◇	□	○	H	H	H
(5) Enhance partnership with the Channel Islands Marine Sanctuary Foundation		◆	□	●	M	M	M
Strategy OP.6 - Human Resources							
(1) Provide human resources services for staff		◇	□	○	H	H	H
(2) Maintain Sanctuary contracts		◇	□	◎	H	H	H
(3) Identify mechanisms to augment and stabilize paid human resources		◆	□	○	H	H	H
(4) Continue partnership with the NOAA Corps		◇	■	●	H	H	H

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Strategy OP.7 - Office Space Expansion							
(1) Participate in building design		◆	■	◎	H	H	H
(2) Assist UCSB with project management during building construction		◆	■	◎	H	H	H
(3) Develop CINMS moving plan and conduct move		◆	■	◎	H	H	H
Strategy OP.8 - Greening Facilities & Operations							
(1) Utilize LEED certified building		◆	■	○	H	H	H
(2) Green Sanctuary vehicle and vessel operations		◆	□	○	M	M	M
(3) Reduce, reuse, recycle.		◇	□	○	H	H	H
(4) Reduce energy consumption.		◇	□	○	H	H	H
Performance Evaluation Action Plan							
Strategy EV.1 - Measuring Sanctuary Performance Over Time							
(1) Monitor existing performance measures consistently over time		◆	□	○	H	H	H
(2) Report results		◆	□	○	H	H	H

Appendix A2: Estimated Costs Per Action Plan

Appendix A2 presents base budget (core operations and programmatic costs) and capital facility estimates for years one through five of this management plan (see Table 25). These estimates help the NMSP allocate funds for CINMS. Due to possible changes in federal funding levels certain Sanctuary programs may require modification or deferred implementation to reflect budgetary changes. “Core operations” costs include: staff and contract labor, training, transportation and travel, utilities, property rental, printing, supplies, equipment, vessels and vessel maintenance. “Programmatic costs” are the additional costs the Sanctuary incurs carrying out the strategies in the action plans.

Table 25. Summary of Estimated Five-Year Costs for Each Action Plan (in thousands)

Action Plan	Year 1	Year 2	Year 3	Year 4	Year 5	Estimated 5 Year Total
Public Awareness & Understanding	\$333.5	\$487	\$534.5	\$465.5	\$447	\$2,267.5
Conservation Science	\$1,951	\$2,238.5	\$2,136	\$2,136	\$2,140	\$10,601.5
Boundary Evaluation	\$0	\$125	\$125	-	-	\$250
Water Quality	\$35	\$63	\$63	\$63	\$63	\$287
Emergency Response & Enforcement	\$38	\$39.5	\$39.5	\$30.5	\$104	\$251.5
Maritime Heritage	\$133.5	\$243	\$102.5	\$76.5	\$82	\$637.5
Resource Protection	-	-	\$10	\$10	-	\$20
Operations	\$322	\$331.5	\$332.5	\$333.5	\$334.5	\$1,654
Evaluation	-	-	-	-	-	-
Estimated Total Per Year	\$2,813	\$3,527.5	\$3,343	\$3,115	\$3,170.5	\$15,969

Note: This table assumes that all actions flagged for capital facilities funding require ALL funding from that source alone.